Comp. Biochem. Physiol. Vol. 142B, No. 4 pp. I–IV, 2005

ELSEVIER

CONTENTS OF VOLUME 142

Vol. 142B, No. 1

General papers

D. Indra, K. Ramalingam and M. Babu	1	Isolation, purification and characterization of collagenase from hepatopancreas of the land snail *Achatina fulica*
T. Venugopal	8	Evolution and expression of Translationally Controlled Tumour Protein (TCTP) of fish
E. Pieragostini, R. Rullo, A. Scaloni, G. Bramante and A. Di Luccia	18	The alpha chains of goat hemoglobins: Old and new variants in native Apulian breeds
P. Shivkamat and R. Roy	28	Regulation of membrane lipid bilayer structure during salinity adaptation: A study with the gill epithelial cell membranes of *Oreochromis niloticus*
K.I. Gubrij, C.M. Chaturvedi, Nawab. Ali, L.E. Cornett, J.D. Kirby, J. Wilkerson, M. Mikhailova, M.L. Turner and D.A. Baeyens	37	Molecular cloning of an oxytocin-like receptor expressed in the chicken shell gland
F. Lahnsteiner	46	Carbohydrate metabolism of eggs of the whitefish, *Coregonus* spp. during embryogenesis and its relationship with egg quality
M. Lombraña, P. Suárez and F. San Juan	56	Two forms of α-amylase in mantle tissue of *Mytilus galloprovincialis*: Purification and molecular properties of form II
R. Gray, P. Canfield and T. Rogers	67	Serum proteins in the leopard seal, *Hydrurga leptonyx*, in Prydz Bay, Eastern Antarctica and the coast of NSW, Australia
R. Chen, W. Li and H. Lin	79	cDNA cloning and mRNA expression of neuropeptide Y in orange spotted grouper, *Epinephelus coioides*
E. Kristiansen, H. Ramløv, L. Hagen, S.A. Pedersen, R.A. Andersen and K.E. Zachariassen	90	Isolation and characterization of hemolymph antifreeze proteins from larvae of the longhorn beetle *Rhagium inquisitor* (L.)
R.M. Rathore, S. Kumar and R. Chakrabarti	98	Digestive enzyme patterns and evaluation of protease classes in *Catla catla* (Family: Cyprinidae) during early developmental stages
R. Itoh and K. Kimura	107	IMP–GMP 5′-nucleotidase in reptiles: Occurrence and tissue distribution in a crocodile and three species of lizards
S.M. Rankin, R. Kwok, M.L. Seymour, U. Shaon Rahman and S.S. Tobe	113	Effects of *Manduca* allatotropin and localization of *Manduca* allatotropin-immunoreactive cells in earwigs

M. Thomson, J.F. Herbert, C.R. Murphy and M.B. Thompson 123 HoxA10-like proteins in the reproductive tract of the viviparous lizard *Eulamprus tympanum* and the oviparous lizard *Lampropholis guichenoti*

I Instructions to Authors

Vol. 142B, No. 2

Review

L.A. Lambert, H. Perri, P.J. Halbrooks and A.B. Mason 129 Evolution of the transferrin family: Conservation of residues associated with iron and anion binding

General papers

L. Chen, L. Xie, X. Xiong, Y. Dai, W. Fan and R. Zhang 142 Cloning and characterization of a novel G protein β-subunit of pearl oyster (*Pinctada fucata*), and its interaction sites with calmodulin

N. Kanzawa, S. Tatewaki, R. Watanabe, I. Kunihisa, H. Iwahashi, K. Nakamura and T. Tsuchiya 153 Expression and tissue distribution of astacin-like squid metalloprotease (ALSM)

S.A. Mohamed 164 Hyaluronidase isoforms from developing embryos of the camel tick *Hyalomma dromedarii*

H. Guderley, N. Turner, P.L. Else and A.J. Hulbert 172 Why are some mitochondria more powerful than others: Insights from comparisons of muscle mitochondria from three terrestrial vertebrates

F.L. Cônsoli, S.L. Brandt, T.A. Coudron and S.B. Vinson 181 Host regulation and release of parasitism-specific proteins in the system *Toxoneuron nigriceps–Heliothis virescens*

S.A. Mohamed, A.S. Fahmy, T.M. Mohamed and S.M. Hamdy 192 Proteases in egg, miracidium and adult of *Fasciola gigantica*. Characterization of serine and cysteine proteases from adult

Y. Seki, K. Sato and Y. Akiba 201 Changes in muscle mRNAs for hexokinase, phosphofructokinase-1 and glycogen synthase in acute and persistent hypoglycemia induced by tolbutamide in chickens

A. Muhlia-Almazán, A. Sánchez-Paz, F. García-Carreño, A.B. Peregrino-Uriarte and G. Yepiz-Plascencia 209 Starvation and diet composition affect mRNA levels of the high density-lipoprotein-β glucan binding protein in the shrimp *Litopenaeus vannamei*

B.C. Small 217 Effect of fasting on nychthemeral concentrations of plasma growth hormone (GH), insulin-like growth factor I (IGF-I), and cortisol in channel catfish (*Ictalurus punctatus*)

A. Saera-Vila, J.A. Calduch-Giner, P. Gómez-Requeni, F. Médale, S. Kaushik and J. Pérez-Sánchez 224 Molecular characterization of gilthead sea bream (*Sparus aurata*) lipoprotein lipase. Transcriptional regulation by season and nutritional condition in skeletal muscle and fat storage tissues

Y. Kamata, N. Tada, M. Saka, F. Minakawa and H. Hoshi 233 Production of monoclonal antibodies against *Chinemys reevesii* turtle vitellogenin and their usage for comparison of biochemical and immunological characters of vitellogenins and yolk proteins of freshwater turtles

D. Costantini, G. Dell'Omo, S. Casagrande, A. Fabiani, M. Carosi, V. Bertacche, C. Marquez, H. Snell, H. Snell, W. Tapia and G. Gentile 239 Inter-population variation of carotenoids in Galápagos land iguanas (*Conolophus subcristatus*)

K.J. McGraw 245 Interspecific variation in dietary carotenoid assimilation in birds: Links to phylogeny and color ornamentation

I Instructions to Authors

Vol. 142B, No. 3

General papers

Y. Wang, S. Zhang, Z. Liu, H. Li and L. Wang 251 Identification and expression of amphioxus β-microseminoprotein (MSP)-like gene encoding an ancient and rapidly evolving protein in chordates

F. Shishikura, H.-a. Takeuchi and T. Nagai 258 Axolotl hemoglobin: cDNA-derived amino acid sequences of two α globins and a β globin from an adult *Ambystoma mexicanum*

S. Antonopoulou, H.C. Karantonis, T. Nomikos, A. Oikonomou, E. Fragopoulou and A. Pantazidou 269 Bioactive polar lipids from *Chroococcidiopsis* sp. (Cyanobacteria)

S.U. Lim, J.S. Seo, M.S. Kim, S.J. Ahn, H.D. Jeong, K.H. Kim, N.G. Park, J.K. Kim, J.K. Chung and H.H. Lee 283 Molecular cloning and characterization of Cathepsin B from a scuticociliate, *Uronema marinum*

J.-M. Shen, R.-D. Li and F.-Y. Gao 293 Effects of ambient temperature on lipid and fatty acid composition in the oviparous lizards, *Phrynocephalus przewalskii*

L.M. Perazzolo, D.M. Lorenzini, S. Daffre and M.A. Barracco 302 Purification and partial characterization of the plasma clotting protein from the pink shrimp *Farfantepenaeus paulensis*

S.A. Mohamed, A.S. Fahmy, T.M. Mohamed and S.M. Hamdy 308 Urea cycle of *Fasciola gigantica*: Purification and characterization of arginase

A. Saito, K. Ueda, M. Imamura, S. Atsumi, H. Tabunoki, N. Miura, A. Watanabe, M. Kitami and R. Sato 317 Purification and cDNA cloning of a cecropin from the longicorn beetle, *Acalolepta luxuriosa*

C.I. Martin and I.A. Johnston 324 The molecular regulation of exercised-induced muscle fibre hypertrophy in the common carp: Expression of MyoD, PCNA and components of the calcineurin-signalling pathway

T.V. Bagnyukova, K.B. Storey and V.I. Lushchak 335 Adaptive response of antioxidant enzymes to catalase inhibition by aminotriazole in goldfish liver and kidney

M.K. Agaba, D.R. Tocher, X. Zheng, C.A. Dickson, J.R. Dick and A.J. Teale 342 Cloning and functional characterisation of polyunsaturated fatty acid elongases of marine and freshwater teleost fish

G. Soslau, P.J. Prest, R. Class, R. George, F. Paladino and G. Violetta 353 Comparison of sea turtle thrombocyte aggregation to human platelet aggregation in whole blood

I Instructions to Authors

Vol. 142B, No. 4

Includes Abstracts from the 27th Annual Meeting of the Japanese Society for Comparative Physiology and Biochemistry, August 4–6, 2005, Chofu, Japan

General papers

Z. Sadaf, P.B. Shahid and B. Bilqees	361	Isolation, characterization and kinetics of goat cystatins
D.L. Puppione, J.P. Whitelegge, L.M. Yam, S. Bassilian, V.N. Schumaker and M.H. MacDonald	369	Mass spectral analysis of domestic and wild equine apoA-I and A-II: Detection of unique dimeric forms of apoA-II
S. Horman, N. Hussain, S.M. Dilworth, K.B. Storey and M.H. Rider	374	Evaluation of the role of AMP-activated protein kinase and its downstream targets in mammalian hibernation
S. Maeng, Y. Jung, E. Choi, J.-K. Jeon, S. Kim, K. Gen and Y.C. Sohn	383	Expression of gonadotropin subunit genes following 4-nonylphenol exposure in masu salmon: Effects on transcript levels and promoter activities via estrogen receptor alpha
M. Droba, B. Droba and D. Błędniak	391	Acid glycosidases from hen oviduct and egg albumen
G.I. Page, P.M. Russell and S.J. Davies	398	Dietary carotenoid pigment supplementation influences hepatic lipid and mucopolysaccharide levels in rainbow trout (*Oncorhynchus mykiss*)
K. Yamamoto, P. Zhang, N. He, Y. Wang, Y. Aso, Y. Banno and H. Fujii	403	Molecular and biochemical characterization of manganese-containing superoxide dismutase from the silkworm, *Bombyx mori*
R. Ganga, J.G. Bell, D. Montero, L. Robaina, M.J. Caballero and M.S. Izquierdo	410	Effect of dietary lipids on plasma fatty acid profiles and prostaglandin and leptin production in gilthead seabream (*Sparus aurata*)
S. Hiyama, T. Sugiyama, S. Kusuhara and T. Uchida	419	Cellular and molecular phenotypes of osteogenic cells isolated from the medullary bone of the hen in vitro
J.B. Cara, N. Aluru, F.J. Moyano and M.M. Vijayan	426	Food-deprivation induces HSP70 and HSP90 protein expression in larval gilthead sea bream and rainbow trout
L. Zhou, Y. Wang, B. Yao, C.-J. Li, G.-D. Ji and J.-F. Gui	432	Molecular cloning and expression pattern of 14 kDa apolipoprotein in orange-spotted grouper, *Epinephelus coioides*
K.M. Hare, J.H. Miller, A.G. Clark and C.H. Daugherty	438	Total lactate dehydrogenase activity of tail muscle is not cold-adapted in nocturnal lizards from cool-temperate habitats
T. Ytrestøyl, G. Struksnæs, W. Koppe and B. Bjerkeng	445	Effects of temperature and feed intake on astaxanthin digestibility and metabolism in Atlantic salmon, *Salmo salar*
F. Yang, H.-T. Xu, Z.-M. Dai and W.-J. Yang	456	Molecular characterization and expression analysis of vitellogenin in the marine crab *Portunus trituberculatus*
A.C. Pappas, F. Karadas, P.F. Surai and B.K. Speake	465	The selenium intake of the female chicken influences the selenium status of her progeny
		Abstracts
	475	Abstracts from the 27th Annual Meeting of the Japanese Society for Comparative Physiology and Biochemistry, August 4–6, 2005, Chofu, Japan
	I	Contents of Volume
	V	Subject Index
	VIII	Author Index